

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

ATTY. DOCKET NO.
ELM-1 Cont. 14

APPLICATION NO.
10/766,557

APPLICANT
Glenn J. Leedy

CONFIRMATION NO.
3092

FILING DATE
January 27, 2004

GROUP
2812

U.S. PATENT DOCUMENTS

EXAMINE R INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>RL</i>	Re. 34,893	04/04/95	Fujii et al.	257	419	
	2,915,722	12/01/59	Foster	336	115	
	3,202,948	08/24/65	Farrand	336	115	
	3,559,282	02/02/71	Lesk	438	113	
	3,560,364	02/02/71	Burkhardt	324	207.12	
	3,602,982	09/07/71	Emmasingel	29	577	
	3,615,901	10/26/71	Medicus	148	11.5 R	
	3,716,429	02/13/73	Napoli et al.	156	17	
	3,777,227	12/14/73	Krishna et al.	257	578	
	3,868,565	02/25/75	Kuipers	324	207.26	
	3,922,705	11/25/75	Yerman	357	26	
	3,997,381	12/14/76	Wanlass	156	3	
	4,070,230	01/24/78	Stein	156	657	
	4,131,985	01/02/79	Greenwood et al.	29	580	
	4,142,004	02/27/79	Hauser, Jr. et al.	438	792	
	4,251,909	02/24/81	Hoeberechts	29	580	
	4,262,631	04/21/81	Kubacki	118	723MP	
	4,394,401	07/19/83	Shioya et al.	427	574	
	4,401,986	08/30/83	Trenkler et al.	340	870.32	
	4,416,054	11/22/83	Thomas et al.	29	572	
	4,539,068	09/03/85	Takagi et al.	156	614	
	4,585,991	04/29/86	Reid et al.	324	158 P	
	4,612,083	09/16/86	Yasumoto et al.	156	633	
	4,617,160	10/14/86	Belanger et al.	264	40.1	
	4,618,397	10/21/86	Shimizu et al.	156	628	
	4,618,763	10/21/86	Schmitz	250	211R	
	4,663,559	05/05/87	Christensen	313	336	
	4,684,436	08/04/87	Burns et al.	216	65	
<i>RL</i>	4,693,770	09/15/87	Hatada	156	151	

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FORM PTO-1449

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<i>RED</i>	4,702,336	10/27/87	Maeda et al.	180	197	
	4,702,936	10/27/87	Seibert et al.	427	583	
	4,706,166	11/10/87	Go	361	403	
	4,721,938	01/26/88	Stevenson	338	4	
	4,761,681	08/02/88	Reid	357	68	
	4,784,721	11/15/88	Holmen et al.	156	647	
	4,810,673	03/07/89	Freeman	438	386	
	4,825,277	04/25/89	Mattox et al.	257	639	
	4,857,481	08/15/89	Tam et al.	438	619	
	4,924,589	05/15/90	Leedy	438	6	
	4,940,916	07/10/90	Borel et al.	313	306	
	Re B14,940,916	11/26/96	Borel et al.	315	306	
	4,950,987	08/21/90	Vranish et al.	324	207.23	
	4,952,446	08/18/90	Lee et al.	428	220	
	4,954,865	09/04/90	Rokos	257	378	
	4,957,882	09/18/90	Shinomiya	438	65	
	4,965,415	10/23/90	Young et al.	200	83 N	
	4,966,663	10/30/90	Mauger	205	656	
	4,994,735	02/19/91	Leedy	324	158	
	5,008,619	04/16/91	Keogh et al.	324	207.17	
	5,010,024	04/23/91	Allen et al.	438	659	
	5,020,219	06/04/91	Leedy	29	846	
	5,034,685	07/23/91	Leedy	324	158 F	
	5,070,026	12/03/91	Greenwald et al.	437	3	
	5,071,510	12/10/91	Findler et al.	156	647	
	5,098,865	03/24/92	Machado et al.	438	788	
	5,103,557	04/14/92	Leedy	29	832	
	5,110,373	05/05/92	Mauger	148	33.2	
	5,111,278	05/05/92	Eichelberger	357	75	
	5,116,777	05/26/92	Chan et al.	438	234	
	5,130,894	07/14/92	Miller	361	393	
<i>RED</i>	5,132,244	07/21/92	Roy	438	477	

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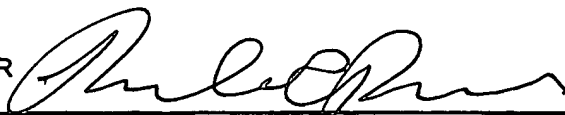
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<i>REP</i>	5,151,775	09/29/92	Hadwin	357	80	
	5,156,909	10/20/92	Henager, Jr. et al.	428	334	
	5,203,731	04/20/93	Zimmerman	445	24	
	5,225,771	07/06/93	Leedy	324	158	
	5,236,118	08/17/93	Bower et al.	228	193	
	5,262,351	11/16/93	Bureau et al.	437	183	
	5,270,261	12/14/93	Bertin et al.	437	209	
	5,273,940	12/28/93	Sanders	437	209	
	5,274,270	12/28/93	Tuckerman	257	758	
	5,279,865	01/18/94	Chebi et al.	427	574	
	5,284,796	02/08/94	Nakanishi et al.	437	183	
	5,323,035	06/21/94	Leedy	257	48	
	5,324,687	06/28/94	Wojnarowski	437	225	
	5,354,695	10/11/94	Leedy	438	411	
	5,363,021	11/08/94	MacDonald	315	366	
	5,385,909	01/31/95	Nelson et al.	514	291	
	5,385,632	01/31/95	Goossen	156	630	
	5,420,458	05/30/95	Shimoji	257	622	
	5,424,920	06/13/95	Miyake	361	735	
	5,426,072	06/20/95	Finnila	437	208	
	5,426,363	06/20/95	Akagi et al.	324	239	
	5,432,444	07/11/95	Yasohama et al.	324	240	
	5,432,729	07/11/95	Carson et al.	365	63	
	5,434,500	07/18/95	Hauck et al.	324	67	
	5,451,489	09/19/95	Leedy	430	313	
	5,453,404	09/26/95	Leedy	437	203	
	5,457,879	10/17/95	Gurtler et al.	29	895	
	5,476,813	12/19/95	Naruse	437	132	
	5,489,554	02/06/96	Gates	437	208	
	5,502,667	03/26/96	Bertin et al.	365	51	
	5,512,397	04/30/96	Leedy	430	30	
<i>REP</i>	5,527,645	06/18/96	Pati et al.	430	5	

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<i>RP</i>	5,529,829	06/25/96	Koskenmaki et al.	428	167	
	5,534,465	07/09/96	Frye et al.	437	209	
	5,555,212	09/10/96	Toshiaki et al.	365	200	
	5,563,084	10/08/96	Ramm et al.	437	51	
	5,571,741	11/05/96	Leedy	437	51	
	5,580,687	12/03/96	Leedy	430	5	
	5,581,498	12/03/96	Ludwig et al.	365	63	
	5,582,939	12/10/96	Pierrat	430	5	
	5,583,688	12/10/96	Hornbeck	359	291	
	5,592,007	01/07/97	Leedy	257	347	
	5,592,018	01/07/97	Leedy	257	619	
	5,595,933	01/21/97	Heijboer	439	20	
	5,606,186	02/25/97	Noda	257	226	
	5,627,112	05/06/97	Tennant et al.	438	113	
	5,629,137	05/13/97	Leedy	430	313	
	5,633,209	05/27/97	Leedy	435	228	
	5,637,536	06/10/97	Val	438	686	
	5,654,127	08/05/97	Leedy	430	315	
	5,654,220	08/05/97	Leedy	438	25	
	5,656,552	08/12/97	Hudak et al.	438	15	
	5,675,185	10/07/97	Chen et al.	257	774	
	5,694,588	12/02/97	Ohara et al.	395	566	
	5,725,995	03/10/98	Leedy	430	315	
	5,750,211	05/12/98	Weise et al.	427	579	
	5,760,478	06/02/98	Bozso et al.	257	777	
	5,773,152	06/30/98	Okonogi	428	446	
	5,786,116	07/28/98	Rolfson	430	5	
	5,793,115	08/11/98	Zavracky et al.	257	777	
	5,831,280	11/03/98	Ray	257	48	
	5,834,334	11/10/98	Leedy	438	107	
	5,840,593	11/24/98	Leedy	438	6	
<i>RP</i>	5,856,695	01/05/99	Ito et al.	257	370	

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<i>PSP</i>	5,868,949	02/09/99	Sotokawa et al.	216	18	
	5,869,354	02/09/99	Leedy	438	110	
	5,870,176	02/09/99	Sweatt et al.	355	53	
	5,880,010	03/09/99	Davidson	438	455	
	5,882,532	03/16/99	Field et al.	216	2	
	5,902,118	05/11/99	Hübner	438	106	
	5,915,167	06/22/99	Leedy	438	108	
	5,946,559	08/31/99	Leedy	438	157	
	5,985,693	11/16/99	Leedy	438	107	
	5,998,069	12/07/99	Cutter et al.	430	5	
	6,008,126	12/28/99	Leedy	438	667	
	6,020,257	02/01/00	Leedy	438	626	
	6,045,625	04/04/00	Houston	148	33.3	
	6,084,284	07/04/00	Adamic, Jr.	257	506	
	6,097,096	08/01/00	Gardner et al.	257	777	
	6,133,640	10/17/00	Leedy	257	778	
	6,194,245 B1	02/27/01	Tayanaka	438	57	
	6,197,456 B1	03/06/01	Aleshin et al.	430	5	
	6,208,545 B1	03/27/01	Leedy	365	51	
	6,236,602 B1	05/22/01	Patti	365	201	
	6,261,728 B1	07/17/01	Lin	430	30	
	6,288,561 B1	09/11/01	Leedy	324	760	
<i>PSP</i>	6,294,909 B1	09/25/01	Leedy	324	207.17	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>PSP</i>	WO 98/19337	05/1998	PCT	H01L	21/44		
<i>PSP</i>	GB 2,215,168	09/1989	UK	G09G	1/00		
<i>PSP</i>	EP 0 189 976	08/1986	EPO	H01L	31/18		
<i>PSP</i>	EP 0 731 525	09/1996	EPO	H01P	5/00		
<i>PSP</i>	2641129	12/1988	France	H01L	39/04		
<i>PSP</i>	JP 60-74643	04/1985	Japan			ABST	





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









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	JP 02-082564	03/1990	Japan			ABST	
	JP 04-083371	03/1992	Japan			ABST	
	JP 04-107964	04/1992	Japan			ABST	
	JP 402027600A	01/1990	Japan			ABST	

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	Alloert, K., et al., "A Comparison Between Silicon Nitride Films Made by PCVD of N ₂ -SiH ₄ /Ar and N ₂ -SiH ₄ /He," <i>Journal of the Electrochemical Society</i> , Vol. 132, No. 7, pp. 1763-1766, (July 1985).
	Hendricks, et al., "Polyquinoline Coatings and Films: Improved Organic Dielectrics for IC's and MCM's," <i>Eleventh IEEE/CHMT International Electronics Manufacturing Technology Symposium</i> , pp. 361-265 (1991).
	Knolle, W.R., et al., "Characterization of Oxygen-Doped, Plasma-Deposited Silicon Nitride," <i>Journal of the Electrochemical Society</i> , Vol. 135, No. 5, pp. 1211-1217, (May 1988).
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	Olmer, et al., "Intermetal Dielectric Deposition by Plasma Enhanced Chemical Vapor Deposition," <i>Fifth IEEE/CHMT International Electronic Manufacturing Technology Symposium - Design-to-Manufacturing Transfer Cycle</i> , pp. 98-99 (1988).
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	Vossen, John L., "Plasma-Enhanced Chemical Vapor Deposition," <i>Thin Film Processes II</i> , pp. 536-541 (1991).
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APPLICANTS

Glenn J. Leedy

CONF. NO.

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GROUP ART UNIT

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SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

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RP	4,500,905	02/19/1985	Shibata	357	68	
	4,939,568	07/03/1990	Kato, et al.	357	75	
	4,892,753	01/09/1990	Wang, et al.	427	579	
	5,000,113	03/19/1991	Wang, et al.	118	723	
	5,240,458	08/31/1993	Linglain, et al.	464	63	
	5,259,247	11/09/1993	Bantien	73	718	
	RE 34,893	04/04/1995	Fujii, et al.	257	419	
	RE 36,623	03/21/2000	Wang, et al.	427	579	
	6,087,284	07/11/2000	Brix, et al.	501	69	
	6,518,073	02/11/2003	Momohara	438	4	12/10/2001

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
RP	04-196,263	07/1992	Japan				

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EXAMINER INITIAL	
RP	Aboaf, J.A., "Stresses in SiO ₂ Films Obtained from the Thermal Decomposition of Tetraethylorthosilicate - Effect of Heat Treatment and Humidity," J. Electrochem. Soc.: Solid State Science; 116(12): 1732-1736 (Dec. 1969).
RP	Scheuerman, R.J., "Fabrication of Thin Dielectric Films with Low Internal Stresses," J. Vac. Sci. and Tech., 7(1): 143-146 (1970).
RP	Bailey, R., "Glass for Solid-State Devices: Glass film has low intrinsic compressive stress for isolating active layers of magnetic-bubble and other solid-state devices," NASA Tech Brief (1982).
RP	"Partitioning Function and Packaging of Integrated Circuits for Physical Security of Data," IBM Technical Disclosure Bulletin, IBM Corp., 32(1): 46-49 (June 1989).
RP	Hsieh, et al., "Directional Deposition of Dielectric Silicon Oxide by Plasma Enhanced TEOS Process," 1989 Proceedings, Sixth International IEEE VLSI Multilevel Interconnection Conference, pp. 411-415 (1989).
RP	Tessier, et al., "An Overview of Dielectric Materials for Multichip Modules," SPE, Electrical & Electronic Div., (6): 260-269 (1991).






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	Krishnamoorthy, et al., "3-D Integration of MQW Modulators Over Active Submicron CMOS Circuits: 375 Mb/s Transimpedance Receiver -Transmitter Circuit," IEEE Photonics Technology Letters, 2(11): 1288-1290 (November 1995).
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	Partial European Search Report for Application No. EP 02009643 (October 8, 2002).

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FORM PTO-249 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. ELM/001 Cont. 14	APPLN. NO. 10/766,557
	APPLICANTS Glenn J. Leedy	CONF. NO. 3092
	FILING DATE January 27, 2004	GROUP ART UNIT 2812

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JP	4,897,708	01/30/90	Clements			
JP	4,983,251	01/08/91	Haisma et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
JP	DE 32 33 195	03/17/83	Germany				
JP	JP S60-126871	07/06/85	Japan				
JP	JP S63-229862	09/26/88	Japan				
JP	EP 0 314 437	05/03/89	EPO				
JP	JP H01-199476	08/10/89	Japan				
JP	JP H03-284871	12/16/91	Japan				
JP	WO 92/03848	03/05/92	PCT				
JP	JP 04-076946	03/11/92	Japan				
JP	WO 01/05366	01/25/01	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

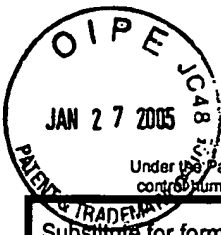
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Substitute for form 1449/PTO				Complete if known	
				Application Number	10/766,557
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	January 27, 2004
				First Named Inventor	Glenn J. Leedy
				Art Unit	2812
				Examiner Name	Not Yet Assigned
(use as many sheets as necessary)				Attorney Docket Number	ELM-1 CONT.14
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JP		US-4,835,765	05/30/1989	Bergmans et al.	
JP		US-4,919,749	04/24/1990	Mauger et al.	
JP		US-5,144,142	09/01/1992	Fueki et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ¹ - Number ² - Kind Code ³				
JP		JP-127818	05-30-1991	Japan		
JP		JP-174715	07-29-1991	Japan		

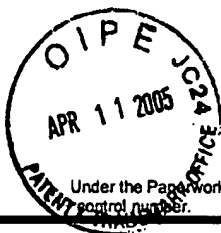
NON PATENT LITERATURE DOCUMENTS			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	January 27, 2004
		First Named Inventor	Glenn J. Leedy
		Art Unit	2812
		Examiner Name	Not Yet Assigned
Sheet	1 of 1	Attorney Docket Number	ELM-1 CONT.14

U.S. PATENT DOCUMENTS					
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RP		6,230,233	05/08/2001	Lofgren et al.	
RP		6,445,006	09/03/2002	Brandes et al.	
RP		6,682,981	01/27/2004	Leedy	
RP		6,713,327	03/30/2004	Leedy	

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RP		JP S63-076484	04/06/1988	Suzuno et al.		
RP		EP 0 518 283	12/16/1992	Kawagishi et al.		
RP		WO 03/078305	09/25/2003	Viefers et al.		

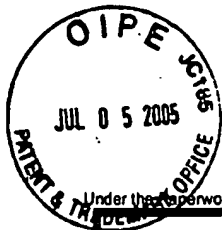
NON PATENT LITERATURE DOCUMENTS			
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RP		Sung, et al., "Well-aligned carbon nitride nanotubes synthesized in anodic alumina by electron cyclotron resonance chemical vapor deposition," Applied Physics Letters, Volume 74, Number 2, 197, 1999, January 11, 1999.	
RP		Phys. Rev., B, Condens. Matter Mater. Phys. (USA), Physical Review B (Condensed Matter and Materials Physics), 15 March 2003, APS through AIP, USA.	

Examiner Signature		Date Considered	11/21/05
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**INFORMATION DISCLOSURE
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Sheet 1 of 1

Complete if known

Application Number	10/766,557 (Conf. No.: 3092)
Filing Date	January 27, 2004
First Named Inventor	Glenn J. Leedy
Art Unit	2812
Examiner Name	Not Yet Assigned
Attorney Docket Number	ELM-1 CONT.14

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
POP		4,724,328	02/09/1988	Lischke	
POP		4,994,336	02/19/1991	Benecke et al.	
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		Country Code ¹ - Number ² - Kind Code ³				
POP		GB 2,125,168	02/29/1984	Kouno		
POP		JP 02-037655	02/07/1990	Benecke et al.		

NON PATENT LITERATURE DOCUMENTS

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POP		"Christensens Physics of Diagnostic Radiology," Curry et al., pp.29-33, 1990.	

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All References Have Been Considered: _____

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Substitute for form 1449/PTO		Complete if known			
		Application Number	10/766,557 (Conf. No.: 3092)		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	January 27, 2004		
		First Named Inventor	Glenn J. Leedy		
		Art Unit	2812		
		Examiner Name	Not Yet Assigned		
Sheet	1	of	1	Attorney Docket Number	ELM-1 CONT.14

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		Number - Kind Code ² (if known)			
PP		4,934,799	06/19/1990	Chu	

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				Application Number	10/766,557 (Conf. No. 3092)
				Filing Date	January 27, 2004
				First Named Inventor	Glenn J. Leedy
				Art Unit	2812
				Examiner Name	Amir Zarabian
Sheet	1	of	3	Attorney Docket Number	ELM-1 Cont.14

U.S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
PSP		US 4,604,162	08-05-1986	Sobczak	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
PSP		EP 0 201 380 B1	12-17-1986	Fairchild Semiconductor Corporation		
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PSP		EP 0 419 898 B1	04-03-1991	Siemens Aktiengesellschaft		
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PSP		EP 0 487 302 B1	05-27-1992	Shin-ETSU Handotai Company Limited		
PSP		EP 0 503 816 B1	09-16-1992	Shin-ETSU Handotai Company Limited		
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PSP		EP 0 526 551 B1	02-10-1993	The Commonwealth of Australia		
PSP		EP 0 554 063 B1	08-04-1993	Canon Kabushiki Kaisha		
PSP		EP 0 555 252 B1	08-18-1993	Fraunhofer-Gesellschaft Zur Förderung Der Angewandten Forschung E.V..		
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PSP		WO 1990 009093	08-23-1990	Polythetics Inc.		
PSP		WO 1992 017901	10-15-1992	Integrated System Assemblies Corporation		

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				First Named Inventor	Glenn J. Leedy
				Art Unit	2812
				Examiner Name	Amir Zarabian
				Attorney Docket Number	ELM-1 Cont.14
Sheet	2	of	3		

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BO		Jones, R.E., Jr. "An evaluation of methods for passivating silicon integrated circuits"; April 1972; pp. 23-8		
BO		Svechnikov, S.V.; Kobylatskaya, M.F.; Kimarskii, V.I.; Kaufman, A.P.; Kuzovlev, Yu. I.; Cherepov, Ye. I.; Fomin, B.I.; "A switching plate with aluminum membrane crossings of conductors"; 1972		
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BO		Kochugova, I.V.; Nikolaeva, L.V.; Vakser, N.M., (M.I. Kalinin Leningrad Polytechnic Institute (USSR); "Electrophysical investigation of thin-layered inorganic coatings"; 1989; pp. 826-828		
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Examiner Signature		Date Considered	11/21/85
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		Art Unit	2812		
		Examiner Name	Amir Zarabian		
Sheet	3	of	3	Attorney Docket Number	ELM-1 Cont.14

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		Maw, T.; Hopla, R.E.; "Properties of a photoimageable thin polyimide film"; Nov. 26-29-, 1990; pp. 71-6	
		Draper, B. L.; Hill, T.A.; "Stress and stress relaxation in integrated circuit metals and dielectrics"; July-Aug. 1991; pp. 1956-62	
		Guckel, H.; "Surface micromachined pressure transducers"; 1991; pp. 133-146	
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